

FIG.1

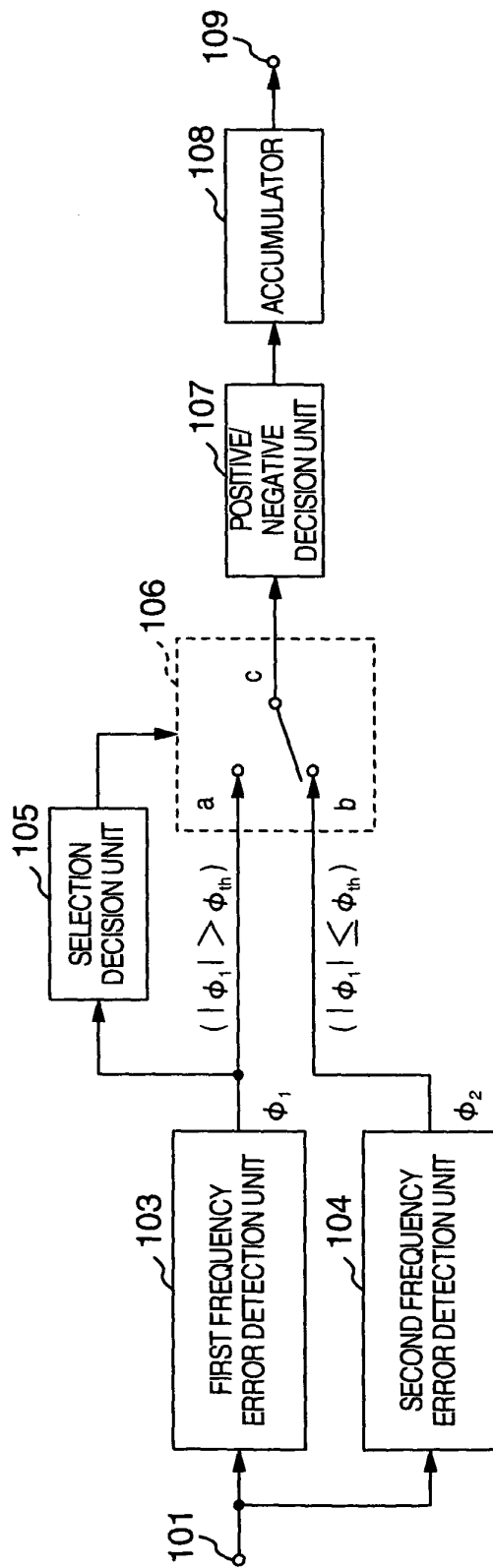


FIG.2

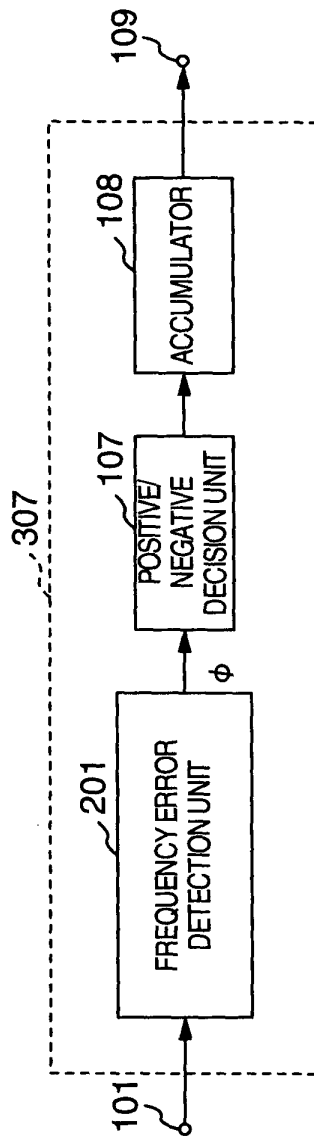


FIG.3

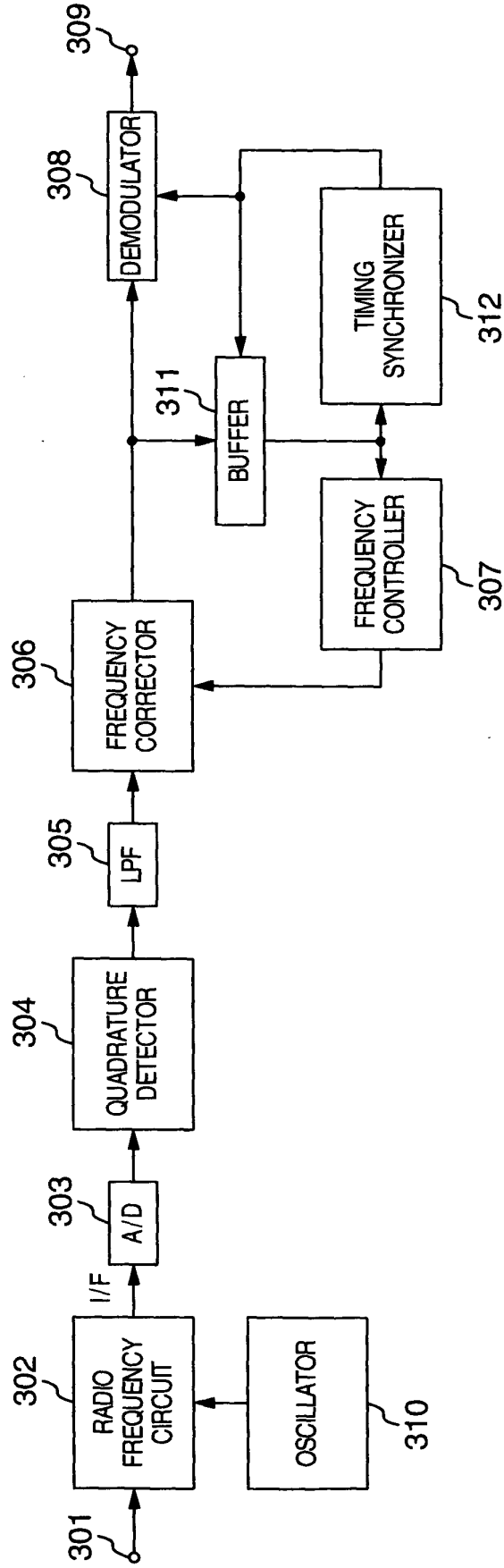


FIG.4

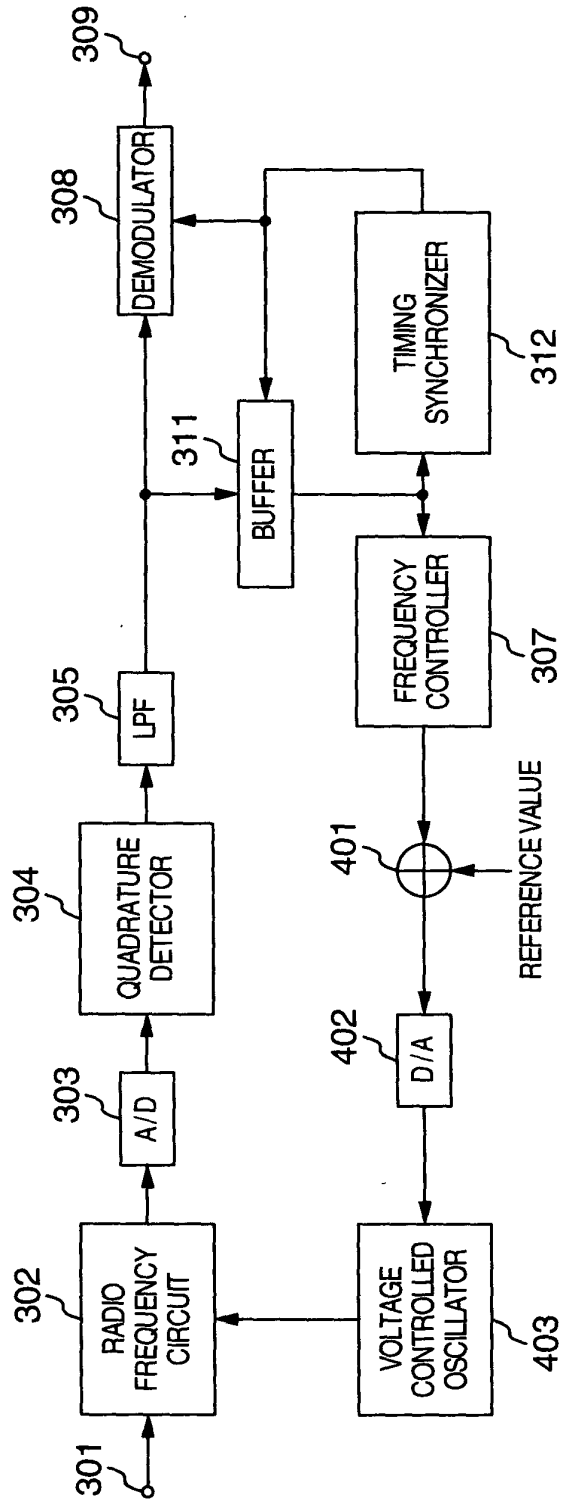
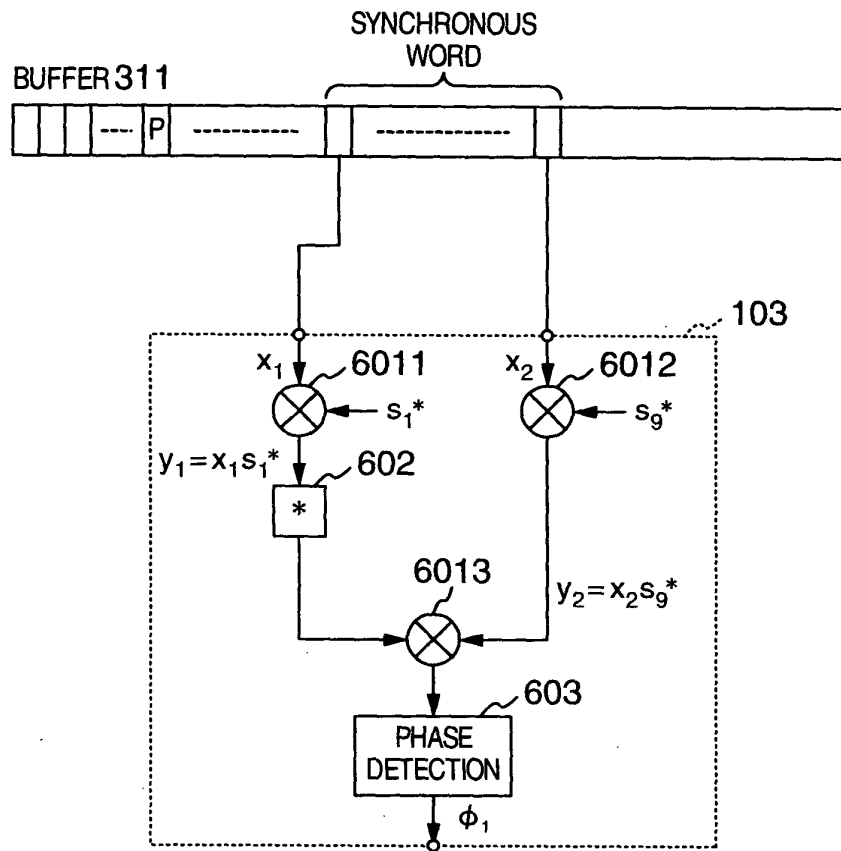


FIG.5

R	P	DATA AREA SIGNAL	SW	DATA AREA SIGNAL	P	G
---	---	------------------	----	------------------	---	---

R: RAMP SECTION
 P: PILOT SYMBOL
 SW: SYNCHRONOUS WORD SYMBOL AREA
 G: GUARD TIME

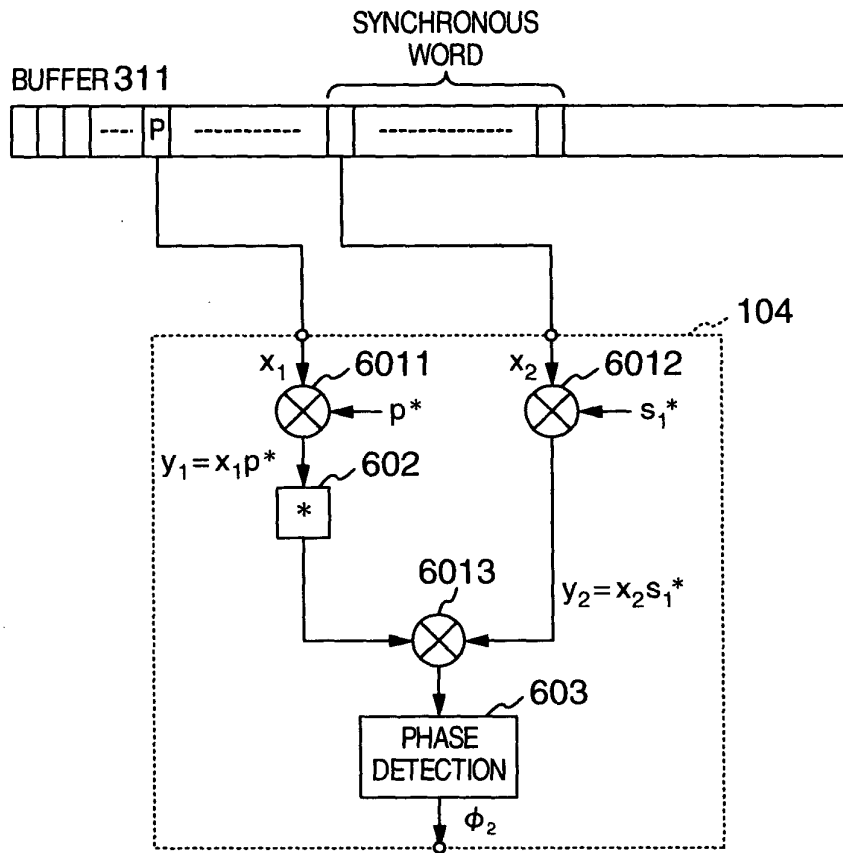
FIG.6A



s_1 : 1st SYMBOL OF SYNCHRONOUS WORD SYMBOL

s_g : 9-th SYMBOL OF SYNCHRONOUS WORD SYMBOL

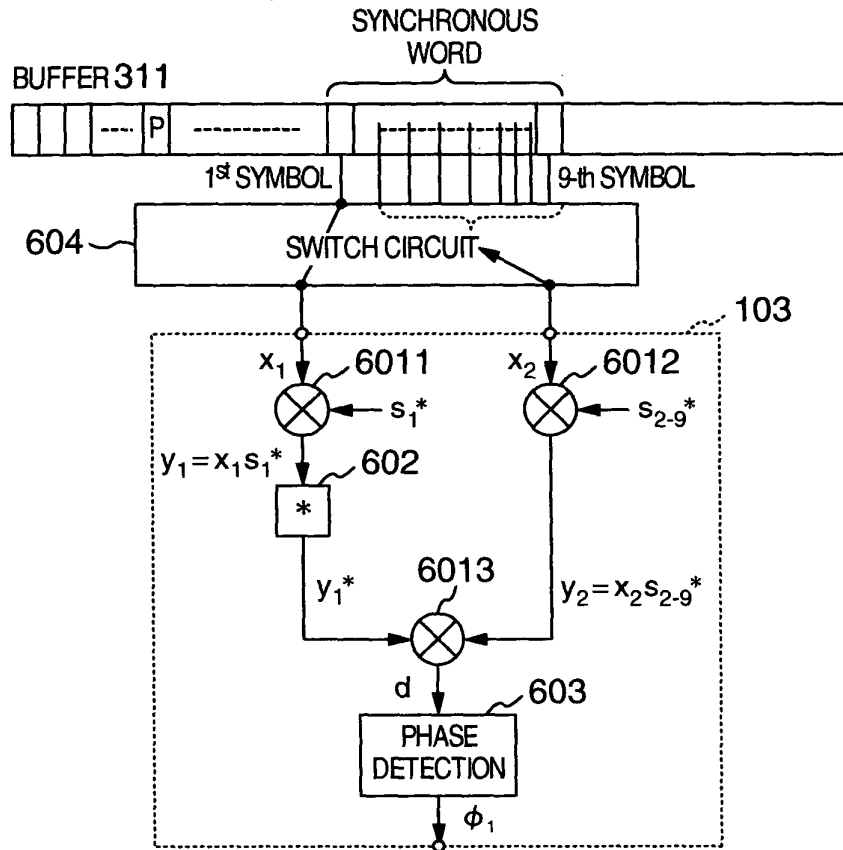
FIG.6B



p: PILOT SYMBOL

s_1 : 1st SYMBOL OF SYNCHRONOUS WORD SYMBOL

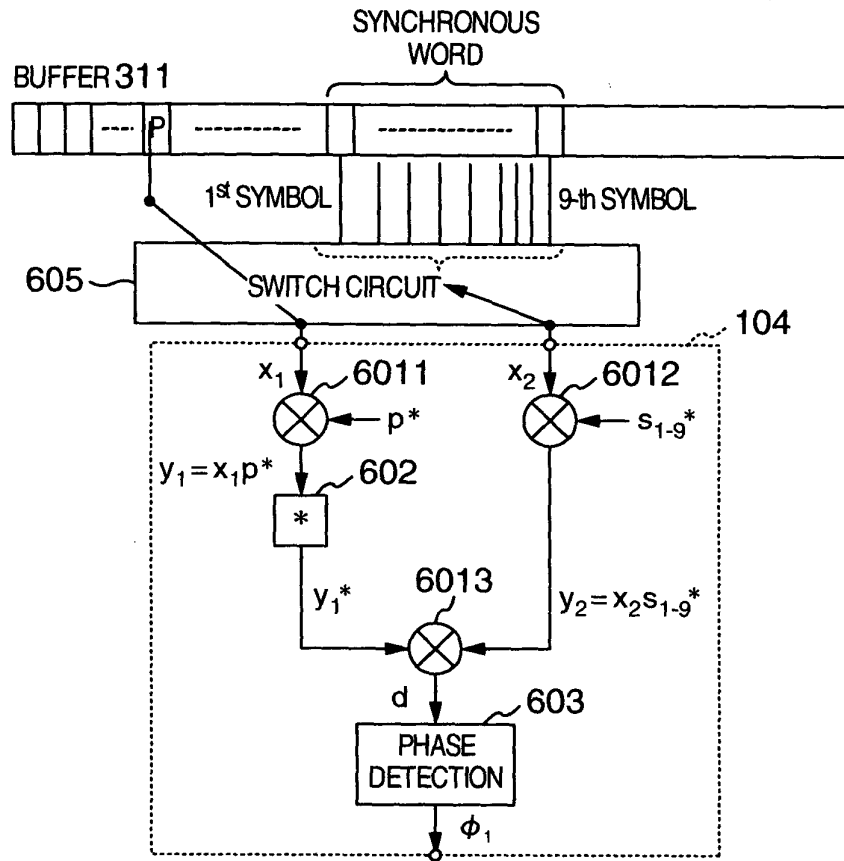
FIG.6C



s_1 : SYMBOL PATTERN OF SYNCHRONOUS WORD 1st SYMBOL

s_{2-9} : SYMBOL PATTERN OF ONE OF SYNCHRONOUS WORD 2nd TO 9th SYMBOLS

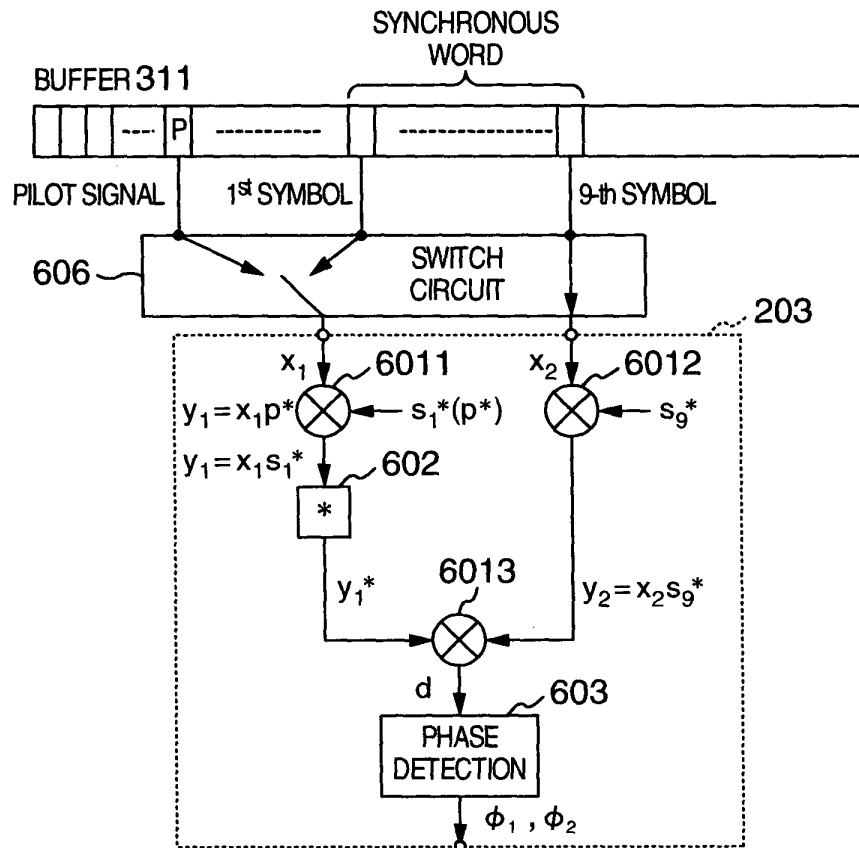
FIG.6D



p : SYMBOL PATTERN OF PILOT SYMBOL

s_{1-9} : SYMBOL PATTERN OF ONE OF SYNCHRONOUS WORD 1st TO 9th SYMBOLS

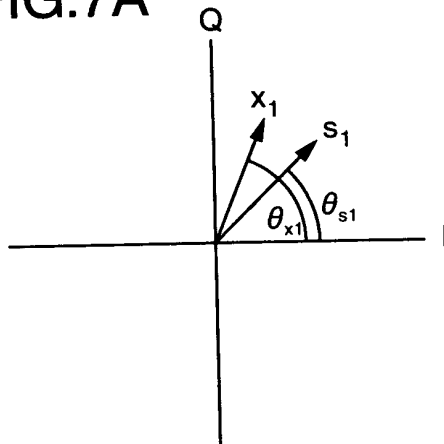
FIG.6E



$s_1(p)$: PILOT SYMBOL OR SYMBOL PATTERN OF SYNCHRONOUS WORD 1st SYMBOL (SELECTION)

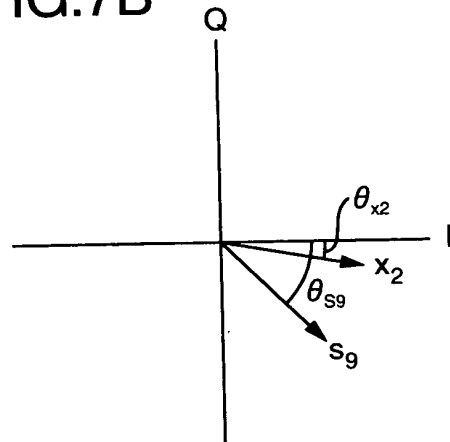
s_9 : SYMBOL PATTERN OF SYNCHRONOUS WORD 9th SYMBOL

FIG.7A



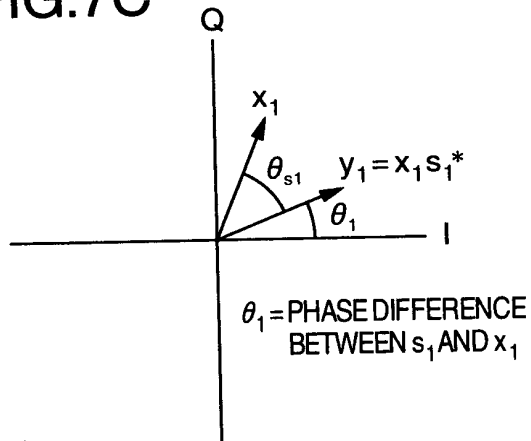
PHASE RELATION BETWEEN x_1 AND s_1

FIG.7B



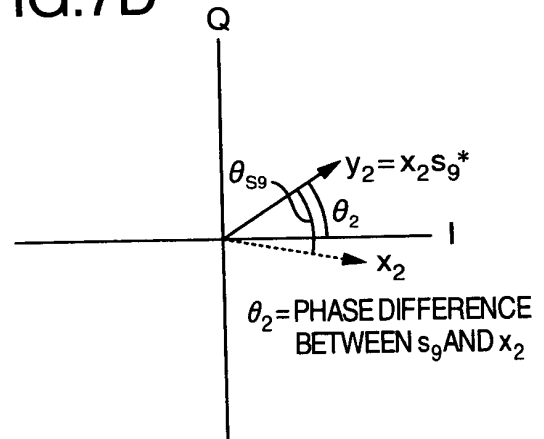
PHASE RELATION BETWEEN x_2 AND s_g

FIG.7C



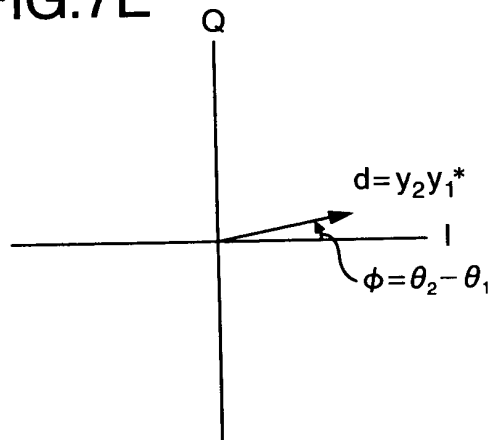
CALCULATION OF y_1

FIG.7D



CALCULATION OF y_2

FIG.7E



CALCULATION OF d

FIG.8

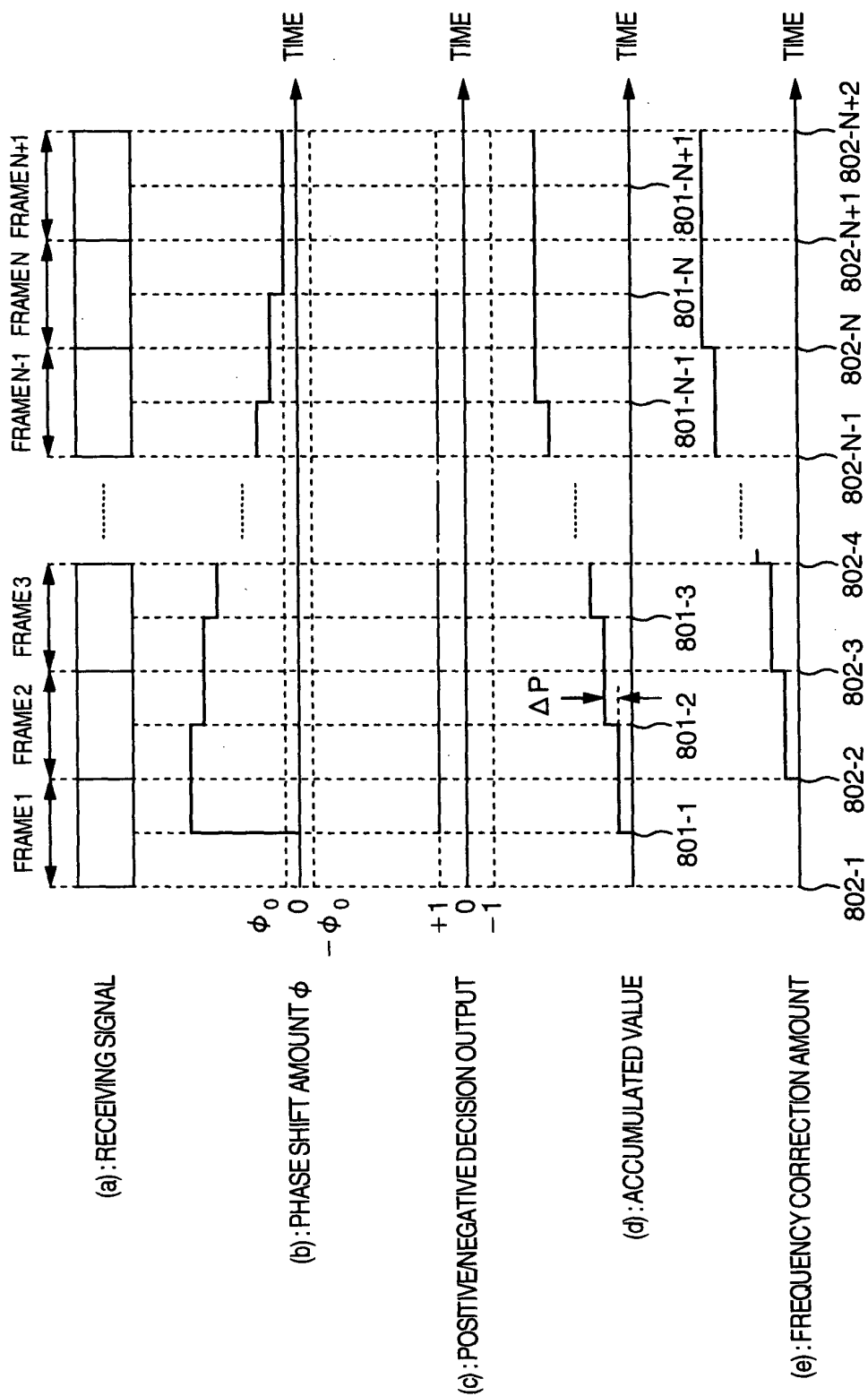


FIG.9

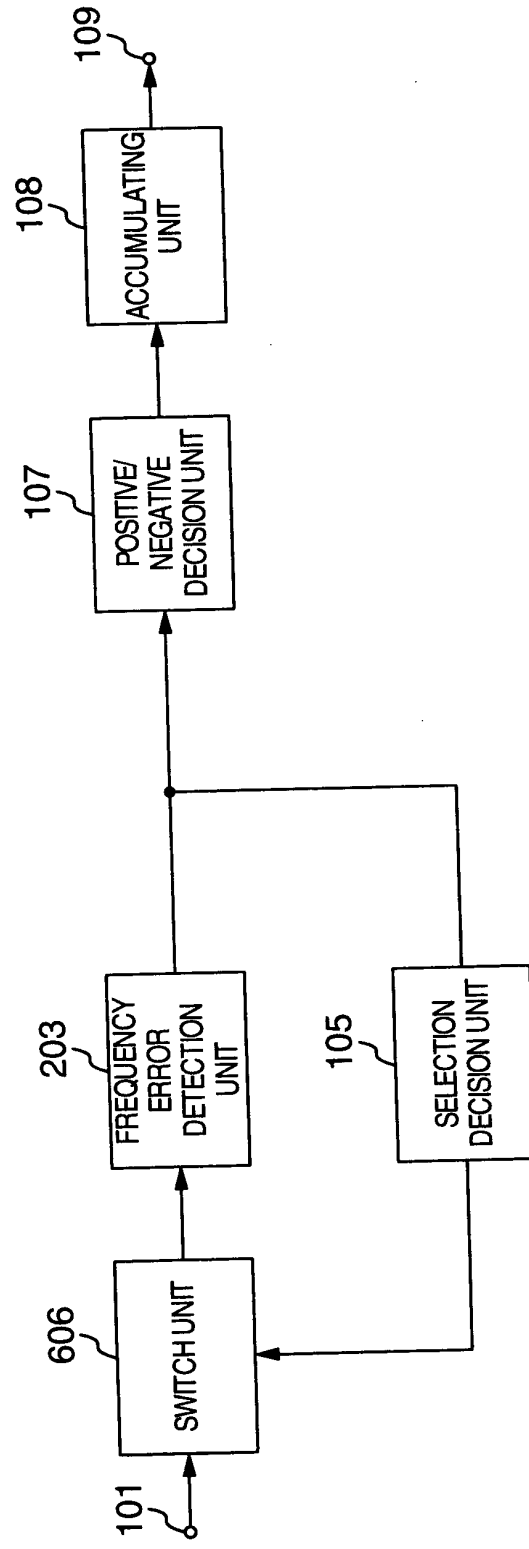


FIG.10

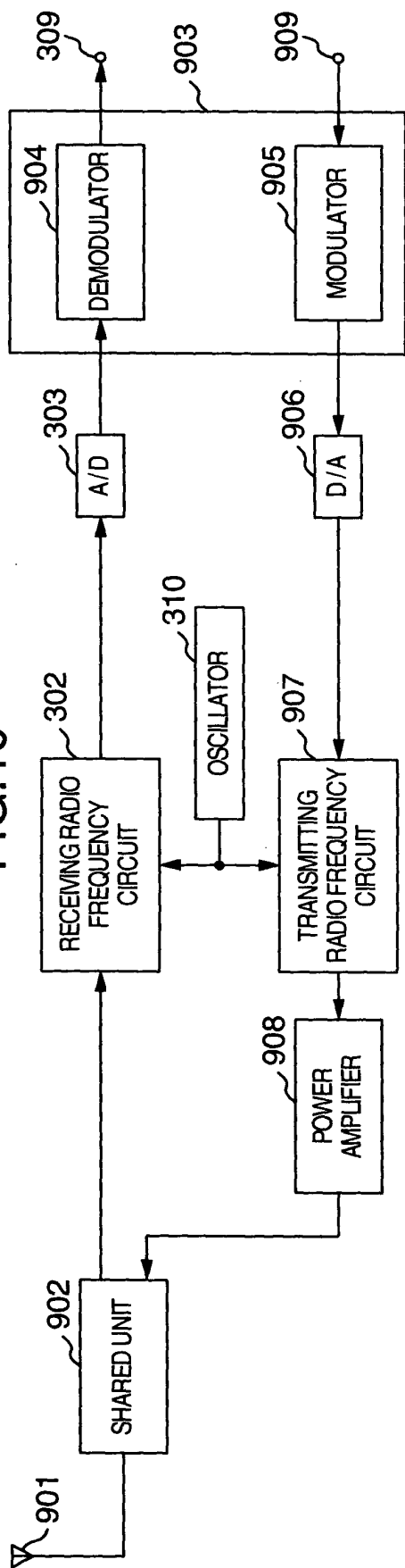


FIG.11

